

Patent claims

1. A method for purifying gases escaping from a gully hole (1), which gases exit from a sewer (8) conducted in the bottom (7) of the gully hole (1), by means of a biofilter which is arranged in the gully hole (1) in such a manner that the gases pass through it before they leave the gully hole (1), characterized in that the biofilter is arranged at such a distance to the sewer (8) that its temperature and moisture are significantly influenced by the wastewater (17) present in the sewer (8).
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- 15 2. The method as claimed in claim 1, characterized in that the biofilter is arranged in the lower half of the gully hole (1).
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- 20 3. The method as claimed in claim 1 or 2, characterized in that, beneath the biofilter, a sealed collection space (18) having a through-hole (15) to the biofilter is constructed.
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- 25 4. A wastewater-biofilter arrangement for installing a biofilter in a gully hole (1) which extends by a vertical wall (5) over an essentially horizontal sewer (8) which is arranged in a bottom (7) of the gully hole (1) to an exit hole which can be closed by a manhole (2) having a sealing arrangement (13, 22) having a through-hole and a mounting device for mounting the biofilter extending over the through-hole for carrying out the method as claimed in one of claims 1 to 3, characterized in that the sealing arrangement (13, 22) for sealing off the gully hole (1) is constructed in a lower part of the gully hole (1) and the biofilter is constructed for arranging in the lower part of the gully hole (1).
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5. The wastewater-biofilter arrangement as claimed in claim 4, characterized in that the sealing arrangement (13, 22) is closed by a gas-permeable partition wall (15) forming the through-hole, on which partition wall the biofilter is arranged.
10. The wastewater-biofilter arrangement as claimed in claim 4 or 5, characterized in that the sealing arrangement (13, 22) has sealing elements (13) for sealing on the bottom (7) on both sides of the sewer (8).
15. The wastewater-biofilter arrangement as claimed in one of claims 4 to 6, characterized in that, for the end-side seal, sealing elements (22) directed toward the wall (5) of the gully hole (1) are provided.
20. The wastewater-biofilter arrangement as claimed in one of claims 4 to 6, characterized in that, for the end-side seal, sealing elements suitable for close fitting to closed pipe attachments projecting into the gully hole (1) are provided.
25. The wastewater-biofilter arrangement as claimed in one of claims 4 to 6, characterized in that the sealing arrangement has a peripheral sealing element closely fitting to the wall of the gully hole (5), the radial expansion of which sealing element is adjustable.
30. The wastewater-biofilter arrangement as claimed in one of claims 4 to 9, characterized in that the sealing arrangement (13, 22) is situated on a lower part (10) having a gas collection space (18), and in that an upper part (11) containing the biofilter can be mounted on the lower part (10) in communicating connection via the gas-

permeable partition wall (15).

11. The wastewater-biofilter arrangement as claimed in claim 10, characterized in that the upper part (11) is constructed in a standard size and can be 5 mounted on lower parts (10) of different sizes.
12. A gully hole having a wastewater-biofilter arrangement (9) as claimed in one of claims 4 to 11.
- 10 13. The gully hole as claimed in claim 12, characterized in that the sewer (8) crossing the gully hole (1) is connected to a wastewater pressure line.
- 15 14. The gully hole as claimed in claim 12 or 13, characterized in that it is constructed having mounting elements for mounting the biofilter arrangement (9).